

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. **(currently amended)** An ignition coil for ignition systems, in particular a rod ignition coil for internal-combustion engines, comprising:

at least one primary winding and at least one secondary winding, a high voltage being induced in the secondary winding when current flows in the primary winding,

a ferromagnetic core which is surrounded at least in part by the primary winding and the secondary winding, one of the windings additionally being surrounded at least in part by the other,

at least one of the windings at least the winding that at least in part surrounds the other winding comprises at least one portion having a winding density that is greater than the remaining winding density, a diameter of innermost turns being smaller in the at least one portion than a diameter of the innermost turns in the remaining winding portions.

2. **(previously presented)** The ignition coil according to claim 1, wherein the secondary winding is so arranged relative to the primary winding that each portion having elevated winding density on one winding corresponds to a portion with the remaining winding density on the other winding in the axial direction.

3. **(previously presented)** The ignition coil according to claim 1, wherein the primary winding surrounds the secondary winding and the at least one portion having elevated winding density is an initial and/or final portion of the primary winding and the secondary winding is arranged in the remaining winding portion of the primary winding.

4. **(previously presented)** The ignition coil according to claim 3, wherein the secondary winding further comprises a pre-winding and/or final winding having reduced winding density, which is surrounded by the initial and/or final portion of the primary winding.

5. **(previously presented)** The ignition coil according to claim 1, wherein at least one of the windings is a flat wire winding.

6. **(previously presented)** The ignition coil according to claim 5, wherein a soft-magnetic sleeve surrounds the windings and the core.

7. **(previously presented)** The ignition coil according to claim 3, wherein the secondary winding is divided into a plurality of individual segments.

8. **(previously presented)** The ignition coil according to claim 7, wherein coil heights of the individual segments are configured to decrease in the manner of a cascade.

9. **(previously presented)** The ignition coil according to claim 3, wherein the at least one portion having elevated winding density is arranged eccentrically with respect to the center line of the ignition coil.

10. **(previously presented)** The ignition coil according to claim 9, wherein the initial portion and the final portion of the primary coil are arranged offset eccentrically substantially by 180° with respect to the center line of the ignition coil.

11. **(currently amended)** An ignition coil comprising:
a ferromagnetic core;
a primary winding being wound around the core;
a secondary winding being wound around the core, such that one of the windings at least partially surrounds the other;
at least one portion of at least one of the windings the winding that at least partially surrounds the other winding having a winding density that is greater than the remaining winding density, wherein the diameter of innermost turns is smaller in the at least one portion than the diameter of the innermost turns in the remaining winding portions[[.]]; whereby a high voltage is induced in secondary winding when current flows in

the primary winding.

12. **(previously presented)** The ignition coil according to claim 11, wherein the secondary winding is arranged relative to the primary winding such that each portion having greater winding density on one winding corresponds to a portion with the remaining winding density on the other winding in the axial direction.

13. **(previously presented)** The ignition coil according to claim 12, wherein the primary winding surrounds the secondary winding and the at least one portion having greater winding density is an initial or final portion of the primary winding and the secondary winding is arranged in the remaining winding portion of the primary winding.

14. **(previously presented)** The ignition coil according to claim 13, wherein the secondary winding further comprises a pre-winding or final winding having reduced winding density, which is surrounded by the initial or final portion of the primary winding.

15. **(previously presented)** The ignition coil according to claim 14, wherein at least one of the windings is a flat wire winding.

16. **(previously presented)** The ignition coil according to claim 15, wherein a soft-magnetic sleeve surrounds the windings and the core.

17. **(previously presented)** The ignition coil according to claim 16, wherein the secondary winding is divided into a plurality of individual segments.

18. **(previously presented)** The ignition coil according to claim 17, wherein coil heights of the individual segments are configured to decrease in the manner of a cascade.

19. **(previously presented)** The ignition coil according to claim 18 wherein the at least one portion having greater winding density is arranged eccentrically with respect to the center line of the ignition coil.

20. **(previously presented)** The ignition coil according to claim 19, wherein the initial portion and the final portion of the primary coil are arranged offset eccentrically substantially by 180° with respect to the center line of the ignition coil.